**Remarks**

The above Amendments and these Remarks are in reply to the Final Office Action mailed February 12, 2003. No fee is due for the addition of any new claims.

Claims 1-14 were pending in the Application prior to the outstanding Final Office Action. In the Final Office Action, the Examiner rejected claims 1-14. Reconsideration of the rejections is respectfully requested.

## I. Rejection under 35 USC 112

Claims 2, 5-8, and 14 are rejected under 35 U.S.C. §112, first paragraph, as containing subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. Claim 2 has been amended for purposes of clarity, and in its present form does not contain the language that was rejected. Applicants respectfully submit that the limitations recited in claim 2 are supported by, and described in, the specification as filed. Claims 5-8 depend from claim 2 and, as their dependence was the sole reason for rejection, are also supported by, and described in, the specification as filed. Claim 14 also has been amended for purposes of clarity, and in its present form does not contain the language that was rejected. Applicants therefore respectfully request that the rejection with respect to claims 2, 5-8 and 14 be withdrawn.

Claim 10 is rejected under 35 U.S.C. §112, first paragraph, as containing subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. Claim 10 has been amended for purposes of clarity, and in its present form does not contain the language that was rejected. Applicants respectfully submit that the limitations

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recited in claim 10 are supported by, and described in, the specification as filed. Applicants therefore respectfully request that the rejection with respect to claim 10 be withdrawn.

Claim 11 is rejected under 35 U.S.C. §112, first paragraph, as containing subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. Claim 11 has been amended for purposes of clarity, and in its present form does not contain the language that was rejected. Applicants respectfully submit that the limitations recited in claim 11 are supported by, and described in, the specification as filed. Applicants therefore respectfully request that the rejection with respect to claim 11 be withdrawn.

Claim 12 is rejected under 35 U.S.C. §112, first paragraph, as containing subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. Claim 12 has been amended for purposes of clarity, and in its present form does not contain the language that was rejected. Applicants respectfully submit that the limitations recited in claim 12 are supported by, and described in, the specification as filed. Applicants therefore respectfully request that the rejection with respect to claim 12 be withdrawn.

Claim 14 is rejected under 35 U.S.C. §112, first paragraph, as containing subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. Claim 14 has been amended for purposes of clarity, and in its present form does not contain the language that was rejected. Applicants respectfully submit that the limitations recited in claim 14 are supported by, and described in, the specification as filed. Applicants therefore respectfully request that the rejection with respect to claim 14 be withdrawn.

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Claim 11 is rejected under 35 U.S.C. §112, first paragraph, as lacking proper antecedent basis. Claim 11 has been amended to properly depend from claim 10. Applicants respectfully submit that claim 11 contains proper antecedent basis for each recited term, and respectfully request that the rejection with respect to claim 11 be withdrawn.

Claims 2 and 5-8 are rejected under 35 U.S.C. §112, first paragraph, as lacking proper antecedent basis. Claim 2 has been amended for purposes of clarity, and in its present form does not contain the language that was rejected. Applicants respectfully submit that claim 2 contains proper antecedent basis for each recited term. Claims 5-8 depend from claim 2 and, as their dependence was the sole reason for rejection, also contain proper antecedent basis for each recited term. Applicants therefore respectfully request that the rejection with respect to claims 2 and 5-8 be withdrawn.

## II. Rejection under 35 USC 103

Claims 1-9 and 12-14 are rejected under 35 U.S.C. §103(a) as being unpatentable over Quinlan, in view of *Wagner*, further in view of *Langford*, and further in view of *McGee*.

A. *Quinlan* - Applicants respectfully disagree with the Examiner's reading of *Quinlan*. *Quinlan* is directed to a gateway component that runs on a client machine, that sets up and manages a persistent connection with a server through the Internet. (Col. 5, lines 15-56; col. 7, lines 17-25; Figure 1). It is this management approach that allows for the avoidance of "unnecessary scanning operations for detecting 'cookies'" (col 7, lines 26-36). *Quinlan* does not disclose the detection of cookies, or "stripping off any cookies." In fact, one of the advantages of the management approach of *Quinlan* is that a user does not have to detect and/or manage cookies (col 7, lines 26-36).

*Quinlan* does not teach "stripping off any cookies set by an external web site from the response header of the response Web page." *Quinlan* does not teach or suggest storing cookies

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in a repository. *Quinlan* does not teach or suggest "appending the session id to all of the links embedded in the response page." *Quinlan* also does not teach or suggest "sending the modified response page, with the new header, to the client". First, *Quinlan* does not teach modifying a response page with a new header. Second, *Quinlan* does not teach "sending the modified response page" to the client, as the gateway component is installed on the client and not on the server. Therefore, *Quinlan* cannot render claim 1 obvious.

B. *Wagner* - *Wagner* does not make up for the deficiencies in *Quinlan*. Applicants' claim 1 recites "stripping off any cookies set by an external web site from the response header of the response Web page and storing the cookies in a repository." *Wagner* does not disclose such a limitation, as *Wagner* only teaches detecting and deleting cookie data from the HTTP header of an incoming request before it is passed to the browser and stored in cache (col. 2, lines 61-65). Detected cookies are logged such that a user can view what was deleted and, if the user wants the deleted material, can "modify the configuration data" and "cause the browser to request the page from the server again" (col 5., lines 18-38). *Wagner* does not teach or suggest "storing the cookies in a repository" on behalf of the client for a session id. *Wagner* also fails to teach or suggest "appending the session id to all of the links embedded in the response page" or "sending the modified response page, with the new header, to the client", As such, *Quinlan* and *Wagner* cannot render claim 1 obvious, either alone or in combination.

C. *McGee* - *McGee* fails to make up for the deficiencies in *Quinlan* and *Wagner*. Applicants respectfully disagree with the Examiner's reading of *McGee*. *McGee* does not disclose appending the session id to all the URLs embedded in a Web page. *McGee* instead teaches in the cited sections that access can be controlled to resources by not providing a client with a URL, but instead providing a token for items that can be validly accessed by a user (col. 4, lines 14-18; col. 10, lines 34-67; col. 11, lines 56-67). *McGee* in fact teaches away from appending a session id to

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a URL embedded in a Web page, as the user could still determine the location of the resource. "An advantage of this aspect of the invention is that the client is not provided with the actual reference information, such as a URL" (col. 4, lines 14-18). As such, *McGee* cannot make up for the deficiencies in *Quinlan* and *Wagner* with respect to claim 1.

D. *Langford* - *Langford* fails to make up for the deficiencies in *Quinlan*, *Wagner*, and *McGee*. *Langford* is directed to an improved data deletion system, not a repository for storing cookies. *Langford* ensures "a physical deletion of information and secure deletion of information when desired," (col. 3, lines 52-53) in one embodiment by performing "an encrypted overwrite deletion process" by encrypting "the data to be deleted using an encryption key" and overwriting "the original data in the file with the encrypted data" (col 4. Line 62-col. 5, line 4). *Langford* does not teach or suggest storing information in a repository, but discloses encrypting data to be deleted and overwriting the unencrypted data such that only the user can recover the data in the event that the user inadvertently deleted the information. Even if the motivation existed to apply the data deletion process of *Langford* to the cookie deletion process of *Wagner*, the combination still does not teach or suggest "storing the cookies in a repository." *Langford* also fails to teach or suggest any of the other elements of claim 1. As such, *Langford* cannot make up for the deficiencies in *Quinlan*, *McGee* and *Wagner* with respect to claim 1.

Further, even if *Quinlan*, *Wagner*, *Langford*, and *McGee* could be combined to render claim 1 obvious, there is no teaching, suggestion, or motivation to do so found either explicitly or implicitly in the references themselves or in the knowledge generally available to one of ordinary skill in the art (MPEP 2143.01). The mere fact that references can be combined or modified does not render the resultant combination obvious unless the prior art also suggests the desirability of the combination. References such as *McGee* which actually teach away from some of the claimed elements go against a suggestion or motivation to combine. Further, it is not sufficient to simply

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find each element of a claim in a reference and combine those references. In the present case, four references were needed to reject a claim with four elements, and in the case of claim 2 four references were needed to reject a claim with three elements. Applicants therefore respectfully submit that even if *Quinlan*, *Wagner*, *Langford*, and *McGee* did show elements similar to those recited in Applicants' claim 1, there is no teaching, suggestion, or motivation to combine the references.

Further, a reasonable expectation of success of the proposed combination or modification is also required to support an obviousness rejection (MPEP 2143.02). There is no suggestion in any of the references that the teachings can be combined with any reasonable expectation of success. For example, *Langford* discloses encrypting deleted data and overwriting existing data. There is no demonstration or suggestion that a Web server handling thousands of requests would be able to encrypt deleted cookie information for each of those requests without creating a bottleneck, or how such a Web server could successfully provide a user for each of those thousands of requests with a way to provide a security key and manually "undelete" the cookie information as taught in *Langford*. Further, there is no teaching in any of the references of how such a system would take the de-encrypted, un-deleted information and reintroduce that information into the header of a subsequent Web request or response on a session, which would be required if using a *Langford* approach. There is no reasonable expectation of success of the proposed combination demonstrated or suggested in any of the references, either alone or in combination.

As set forth above, none of the references teach or suggest the elements of claim 1, either alone or in combination. Further, there is no motivation to combine the references found either explicitly or implicitly in the references themselves or in the knowledge generally available to one of ordinary skill in the art. Also, there is no demonstration that the references could be combined

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to obviate the invnetion of claim 1 with any likelihood of success. Claim 1 therefore cannot be rendered obvious by *Quinlan* in view of *Wagner, McGee,* and *Langford.* Applicants therefore respectfully request that the rejection with respect to claim 1 be withdrawn.

Claims 2 and 14 contain similar limitations to those discussed above with respect to claim 1 and therefore should not be rendered obvious for the reasons set forth above. Claims 3-9 and 12-13 depend from claim 2, and therefore should also not be rendered obvious by these claims. Applicants therefore respectfully request that the rejection with respect to claims 1-9 and 12-14 be withdrawn.

Claims 10-11 are rejected under 35 U.S.C. §103(a) as being obvious over the above references , and further in view of *Olden.* Claims 10-11 depend from claim 2, which is not rendered obvious by the above references for reasons discussed above. As claim 2 is not rendered obvious, neither can claims 10-11 be rendered obvious. Further, *Olden* discloses the setting of "time out settings" for a cookie that renders the cookie "unuseable after a period of inactivity" (col. 24, lines 29-46). *Olden* does not teach or suggest "setting a lifetime for a session." The period of inactivity of a cookie may in fact be longer than a session, as cookies are often stored in a browser after an Internet session has expired. As claims 10-11 depend from claim 2, and further as *Olden* does not teach or suggest "setting a lifetime for a session," Applicants submit that claims 10-11 are also not rendered obvious and respectfully request that the rejection with respect to claims 10-11 be withdrawn.
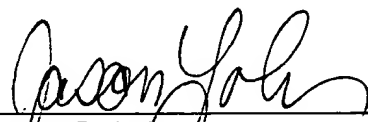
## III. Conclusion

In light of the above, it is respectfully submitted that all of the claims now pending in the subject patent application should be allowable, and a Notice of Allowance is requested. The Examiner is respectfully requested to telephone the undersigned if he can assist in any way in expediting issuance of a patent.

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The Commissioner is authorized to charge any underpayment or credit any overpayment to Deposit Account No. 06-1325 for any matter in connection with this response, including any fee for extension of time, which may be required.

Respectfully submitted,

Date: 4/10/C3

By: _____
Jason D. Lohr
Reg. No. 48,163

FLIESLER DUBB MEYER & LOVEJOY LLP
Four Embarcadero Center, Fourth Floor
San Francisco, California 94111-4156
Telephone: (415) 362-3800

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## Appendix

2. (Once Amended): A method for handling cookies for a client browser, comprising:

generating a unique session id in response to a request from a client browser;

removing any cookies from a response page for the request and storing [the] information contained in each cookie in a cookie repository; and

appending the unique session id to [any] each URL in the response page before sending the response page to the client browser.

10. (Once Amended): A method according to claim 2, further comprising:

setting a lifetime for a session corresponding to the unique session id.

11. (Once Amended): A method according to claim [9] 10, further comprising:

[dropping] storing the information from the cookie repository [when] during the lifetime [expires] of the session.

12. (Once Amended): A method according to claim 2, further comprising:

determining whether the client browser [has disabled] accepts cookies.

14. (Once Amended): A method for storing information for a client, comprising:

removing information from a document and storing that information in a repository [on a proxy server];

appending an identifier to [any] each link in the document and sending that document to the client, the identifier identifying the information being stored in the repository for the client.

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